

Listing of claims

1-19 (cancelled)

20. (original) A method of constructing an electric storage battery including:
- providing an electrically conductive elongate pin having inner and outer ends;
 - providing a first polarity electrode strip;
 - providing a second polarity electrode strip;
 - electrically connecting a first end of said first polarity electrode strip to said pin proximate to said pin inner end;
 - mounting a reinforcing mandrel on the pin;
 - winding together said first polarity electrode strip and said second polarity electrode strip to form a spiral roll having at least a portion of the pin within the spiral roll.
21. (original) The method of claim 20 and further including the step of:
- mounting said spiral roll in a case with said pin outer end extending exteriorly of said case to form a first battery terminal.
22. (original) The method of claim 20 and further including the step of:
- electrically coupling the reinforcing mandrel to the pin.
23. (original) The method of claim 20 wherein said step of winding together the first polarity electrode strip and the second polarity electrode strip comprises rotating the pin.
24. (original) The method of claim 20 wherein said step of providing said electrically conductive elongate pin includes a step of:
- forming an end cap including an insulating member on said pin hermetically sealed thereto and positioned proximate to but spaced from said pin outer end.
25. (original) The method of claim 24 including the further step of mounting a conductive member around said insulating member; and
- electrically connecting said conductive member to said case.

26. (original) The method of claim 20 including a further step of welding the reinforcing mandrel to the pin.

27. (original) The method of claim 20 said step of mounting a reinforcing mandrel comprises mounting a mandrel comprising a tube having a slot therein; and wherein said winding step further includes the steps of:

inserting a drive key into the slot; and

orbiting the drive key to rotate the mandrel and pin.

28. (original) The method of claim 20 wherein the said step of mounting a reinforcing mandrel comprises providing a channel and wherein said steps further include a step of injecting electrolyte through the channel.

29-65 (cancelled)

66. (new) The method of claim 20 including a further step of crimping the reinforcing mandrel to the pin.

67. (new) A method of constructing an electric storage battery including:

providing an electrically conductive elongate pin having inner and outer ends;

providing a first polarity electrode strip;

providing a second polarity electrode strip;

electrically connecting a first end of said first polarity electrode strip to said pin proximate to said pin inner end;

mounting a mandrel on the pin;

winding together said first polarity electrode strip and said second polarity electrode strip to form a spiral roll having at least a portion of the pin within the spiral roll.

68. (new) The method of claim 67 and further including the step of:

mounting said spiral roll in a case with said pin outer end extending exteriorly of said case to form a first battery terminal.

69. (new) The method of claim 67 and further including the step of:

electrically coupling the mandrel to the pin.

70. (new) The method of claim 67 wherein said step of winding together the first polarity electrode strip and the second polarity electrode strip comprises rotating the pin.

71. (new) The method of claim 67 wherein said step of providing said electrically conductive elongate pin includes a step of:

forming an end cap including an insulating member on said pin hermetically sealed thereto and positioned proximate to but spaced from said pin outer end.

72. (new) The method of claim 71 including the further step of mounting a conductive member around said insulating member; and

electrically connecting said conductive member to said case.

73. (new) The method of claim 67 including a further step of welding the mandrel to the pin.

74. (new) The method of claim 67 including a further step of crimping the mandrel to the pin.

75. (new) The method of claim 67 said step of mounting a mandrel comprises mounting a mandrel comprising a tube having a slot therein; and wherein said winding step further includes the steps of:

inserting a drive key into the slot; and

orbiting the drive key to rotate the mandrel and pin.

76. (new) The method of claim 67 wherein the said step of mounting a mandrel comprises providing a channel and wherein said steps further include a step of injecting electrolyte through the channel.